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Before Fixing the Planet, We Have to Fix Everyday Things

Accusing the government of "treason" and compromising on national security over the Pegasus spyware issue, the Congress Monday demanded the sacking of Home Minister Amit Shah and a probe into the ...

Project Pegasus: Numbers of Rahul Gandhi, Prashant Kishor,

Ashok Lavasa & Ashwini Vaishnaw were spyware targets

From Blackstone's newest edtech bet to GlobalBees's \$150 million fundraising and the latest on the Pegasus spyware, here's a quick look at the top tech news today.

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Simplilearn, GlobalBees and Spinny score big

Following the review of the preliminary closing of the third quarter of financial year 2021, the Board of Directors of Siemens Gamesa Renewable Energy (SGRE) decided to update and adjust its guidance ...

Siemens Gamesa adjusts its guidance for financial year 2021

The apparent Xiaomi Redmi 10 series has arrived at the FCC. The certification agency has listed the devices wireless specs, and more.

Apparent Redmi 10 spills some secrets as it passes through FCC

Companies such as Haier, Midea, and Gree generated sales worth 100 million yuan with a minute while brands like Siemens and

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Xiaomi crossed the market of sales worth 100 million yuan in three minutes.

[Apple iPhone crosses 100 million yuan in sales within a second on JD.com](#)

But the City will ultimately not pay a penny from its pocket in the infrastructure-as-a-service model. It is a far cry from the \$90 million the City paid for the Siemens contract that ended up as ...

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When Kia launched its electric EV6 crossover vehicle in New York City's Times Square, the automaker relied on the disguise Designer software to accurately pre-visualise the custom video content that ...

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Kia takes over Times Square with disguise for its EV6 launch

Siemens AG, Diamond Aircraft and EADS are set to present the world's first aircraft with a serial hybrid electric drive system at the Paris Air Show Le Bourget 2011. The two-seater motor glider ...

Siemens DA36 E-Star glider takes serial hybrid to new heights

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Siemens Gamesa Renewable Energy SA

Reports that Israel-made Pegasus spyware has been used to monitor activists, journalists and politicians around the world highlight the diplomatic risks ...

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[Pegasus scandal shows risk of Israel's spy-tech...](#)

The Wire news portal, in the second part of its revelations from the international collaborative investigation called the Pegasus Project, reported that the phone number of West Bengal Chief Minister ...

[Pegasus Project: Numbers of Rahul Gandhi, Prashant Kishore, 2 BJP ministers, Lavasa were potential spyware targets: Report](#)

Mode=11 Top Leading Companies of Global Portable Ultrasound Devices Market are GE, Philips, Siemens ... in Japan with a novel subscription model unique in the industry, Philips ...

[Portable Ultrasound Devices Market 2021 Competitive Insights and Status Outlook - GE, Philips, Siemens, Fujifilm, Toshiba, Samsung.](#)

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Hitachi

Rahul, Prashant Kishor, 2 ministers among Pegasus 'targets'. Former Congress chief Rahul Gandhi, Bharatiya Janata Party ministers Ashwini Vaishnaw and Prahlad Singh Patel, as also former election ...

Rahul, Prashant Kishor, 2 ministers among Pegasus 'targets'

Pakistan Prime Minister Imran Khan was a potential target of the Israeli-made Pegasus spyware programme by clients of the NSO Group cyberespionage firm, media reports claimed here on Monday.

Pak PM Imran Khan was potential target of Pegasus spyware programme: Report

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The deployment of the tool, confirmed with forensics, shows a willingness to use tactics previously deemed out-of-bounds.

In Orban's Hungary, spyware was used to monitor journalists and others who might challenge the government

This comprehensive Industrial PROFIBUS market report provides genuine information of the global market statistics and status. Its scope study expands from market situation to comparative pricing ...

Industrial PROFIBUS Market Aims to Expand at Double-Digit Growth Rate | Siemens, Emerson Electric, Texas Instruments

As an example, the virtual platform model of the Freedom U540 SoC with five CPU cores ... and simulation-emulation tools from

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Cadence, Siemens and Synopsys, plus Metrics Technologies' cloud-based ...

SiFive approves Imperas Risc-V simulation models

"Much of the rail industry hasn't been innovating for 30 years and now it's like we're jumping from rotary phones to Voice ... Michael Peter, CEO, Siemens Mobility, which has operations ...

Mumbai-Pune in a Vistadome, and why trains are becoming key again

Reports that Israel-made Pegasus spyware has been used to monitor activists, journalists and politicians around the world highlight the diplomatic risks of nurturing and exporting "oppressive ...

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La mise en place d'un logiciel sans défaut reste primordiale pour plusieurs domaines qui requièrent des applications dites de sécurité comme les transports. La réalisation d'un modèle formel est l'approche la plus efficace pour atteindre l'objectif du zéro défaut, que ce soit en termes de temps ou de maîtrise de la complexité. Ce modèle permet d'analyser et de vérifier le comportement d'un

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logiciel. Cet ouvrage présente la méthode B, une méthode formelle s'appuyant sur la preuve de propriétés qui, sur la base d'une spécification et de la notion de raffinement, permet d'aller jusqu'à la production automatique de code. Différents outils découlant de cette méthode ainsi que des exemples concrets d'utilisations industrielles de différentes tailles sont aussi exposés dans des domaines tels que l'avionique ou les systèmes manufacturiers.

The Britannica Enciclopedia Moderna covers all fields of knowledge, including arts, geography, philosophy, science, sports, and much more. Users will enjoy a quick reference of 24,000 entries and 2.5 million words. More than 4,800 images, graphs, and tables further enlighten students and clarify subject matter. The simple A-Z organization and clear descriptions will appeal to both Spanish

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speakers and students of Spanish.

This book addresses one of the core challenges in the corporate social responsibility (or business and human rights) debate: how to ensure adequate access to remedy for victims of corporate abuses that infringe upon their human rights. However, ensuring access to remedy depends on a series of normative and judicial elements that become highly complex when disputes are transnational. In such cases, courts need to consider and apply different laws that relate to company governance, to determine the competent forum, to define which bodies of law to apply, and to ensure the adequate execution of judgments. The book also discusses how alternative methods of dispute settlement can relate to this topic, and the important role that private international law plays in access to remedy for

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corporate-related human rights abuses. This collection comprises 20 national reports from jurisdictions in Europe, North America, Latin America and Asia, addressing the private international law aspects of corporate social responsibility. They provide an overview of the legal differences between geographical areas, and offer numerous examples of how states and their courts have resolved disputes involving private international law elements. The book draws two preliminary conclusions: that there is a need for a better understanding of the role that private international law plays in cases involving transnational elements, in order to better design transnational solutions to the issues posed by economic globalisation; and that the treaty negotiations on business and human rights in the United Nations could offer a forum to clarify and unify several of the elements that underpin transnational

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disputes involving corporate human rights abuses, which could also help to identify and bridge the existing gaps that limit effective access to remedy. Adopting a comparative approach, this book appeals to academics, lawyers, judges and legislators concerned with the issue of access to remedy and reparation for corporate abuses under the prism of private international law.

"Werner von Siemens (1816-92) is best known in the English-speaking world as an inventor and pioneering electrical engineer. While previous studies have concentrated on his work as a scientist and technician, this biography, the first in a three-volume history of the Siemens corporation, focuses on his life as a businessman. Siemens was not only a successful inventor but also an entrepreneur with a broad and international business vision." "Siemens first

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achieved success in telegraphy. His firm, Siemens & Halske, built Germany's first important telegraph line and went on to build lines elsewhere in Europe and Asia. Siemens then turned his hand to electric technology. He was instrumental in creating the conditions for the advancement of electrical technology from the experimental stage into the modern electrical industry." "Siemens combined his engineering brilliance with entrepreneurial skills to develop a business whose activities at an early stage nearly spanned the globe. Siemens held a multinational vision almost from the start. The Siemens firms were unique in that, rather than starting small then slowly growing and branching out, they were from their inception international organizations." "The story of Siemens is a vital part of the history of industrialization in Europe. It will make fascinating reading for scholars and students of German history, business

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history, and the history of technology."--BOOK JACKET.Title Summary field provided by Blackwell North America, Inc. All Rights Reserved

This book details Automatic Solar-Tracking, Sun-Tracking-Systems, Solar-Trackers and Sun Tracker Systems. An intelligent automatic solar tracker is a device that orients a payload toward the sun. Such programmable computer based solar tracking device includes principles of solar tracking, solar tracking systems, as well as microcontroller, microprocessor and/or PC based solar tracking

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control to orientate solar reflectors, solar lenses, photovoltaic panels or other optical configurations towards the sun. Motorized space frames and kinematic systems ensure motion dynamics and employ drive technology and gearing principles to steer optical configurations such as mangin, parabolic, conic, or cassegrain solar energy collectors to face the sun and follow the sun movement contour continuously. In harnessing power from the sun through a solar tracker or practical solar tracking system, renewable energy control automation systems require automatic solar tracking software and solar position algorithms to accomplish dynamic motion control with control automation architecture, circuit boards and hardware. On-axis sun tracking system such as the altitude-azimuth dual axis or multi-axis solar tracker systems use a sun tracking algorithm or ray tracing sensors or software to ensure the

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sun's passage through the sky is traced with high precision in automated solar tracker applications, right through summer solstice, solar equinox and winter solstice. A high precision sun position calculator or sun position algorithm is this an important step in the design and construction of an automatic solar tracking system. From sun tracing software perspective, the sonnet Tracing The Sun has a literal meaning. Within the context of sun track and trace, this book explains that the sun's daily path across the sky is directed by relatively simple principles, and if grasped/understood, then it is relatively easy to trace the sun with sun following software. Sun position computer software for tracing the sun are available as open source code, sources that is listed in this book. Ironically there was even a system called sun chaser, said to have been a solar positioner system known for chasing the sun throughout the day. Using solar

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equations in an electronic circuit for automatic solar tracking is quite simple, even if you are a novice, but mathematical solar equations are over complicated by academic experts and professors in text-books, journal articles and internet websites. In terms of solar hobbies, scholars, students and Hobbyist's looking at solar tracking electronics or PC programs for solar tracking are usually overcome by the sheer volume of scientific material and internet resources, which leaves many developers in frustration when search for simple experimental solar tracking source-code for their on-axis sun-tracking systems. This booklet will simplify the search for the mystical sun tracking formulas for your sun tracker innovation and help you develop your own autonomous solar tracking controller. By directing the solar collector directly into the sun, a solar harvesting means or device can harness sunlight or thermal heat.

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This is achieved with the help of sun angle formulas, solar angle formulas or solar tracking procedures for the calculation of sun's position in the sky. Automatic sun tracking system software includes algorithms for solar altitude azimuth angle calculations required in following the sun across the sky. In using the longitude, latitude GPS coordinates of the solar tracker location, these sun tracking software tools supports precision solar tracking by determining the solar altitude-azimuth coordinates for the sun trajectory in altitude-azimuth tracking at the tracker location, using certain sun angle formulas in sun vector calculations. Instead of follow the sun software, a sun tracking sensor such as a sun sensor or webcam or video camera with vision based sun following image processing software can also be used to determine the position of the sun optically. Such optical feedback devices are often used in

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solar panel tracking systems and dish tracking systems. Dynamic sun tracing is also used in solar surveying, DNI analyser and sun surveying systems that build solar infographics maps with solar radiance, irradiance and DNI models for GIS (geographical information system). In this way geospatial methods on solar/environment interaction makes use use of geospatial technologies (GIS, Remote Sensing, and Cartography). Climatic data and weather station or weather center data, as well as queries from sky servers and solar resource database systems (i.e. on DB2, Sybase, Oracle, SQL, MySQL) may also be associated with solar GIS maps. In such solar resource modelling systems, a pyranometer or solarimeter is normally used in addition to measure direct and indirect, scattered, dispersed, reflective radiation for a particular geographical location. Sunlight analysis is important in flash

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photography where photographic lighting are important for photographers. GIS systems are used by architects who add sun shadow applets to study architectural shading or sun shadow analysis, solar flux calculations, optical modelling or to perform weather modelling. Such systems often employ a computer operated telescope type mechanism with ray tracing program software as a solar navigator or sun tracer that determines the solar position and intensity. The purpose of this booklet is to assist developers to track and trace suitable source-code and solar tracking algorithms for their application, whether a hobbyist, scientist, technician or engineer. Many open-source sun following and tracking algorithms and source-code for solar tracking programs and modules are freely available to download on the internet today. Certain proprietary solar tracker kits and solar tracking controllers include a software

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development kit SDK for its application programming interface API attributes (Pebble). Widget libraries, widget toolkits, GUI toolkit and UX libraries with graphical control elements are also available to construct the graphical user interface (GUI) for your solar tracking or solar power monitoring program. The solar library used by solar position calculators, solar simulation software and solar contour calculators include machine program code for the solar hardware controller which are software programmed into Micro-controllers, Programmable Logic Controllers PLC, programmable gate arrays, Arduino processor or PIC processor. PC based solar tracking is also high in demand using C++, Visual Basic VB, as well as MS Windows, Linux and Apple Mac based operating systems for sun path tables on Matlab, Excel. Some books and internet webpages use other terms, such as: sun angle calculator,

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sun position calculator or solar angle calculator. As said, such software code calculate the solar azimuth angle, solar altitude angle, solar elevation angle or the solar Zenith angle (Zenith solar angle is simply referenced from vertical plane, the mirror of the elevation angle measured from the horizontal or ground plane level). Similar software code is also used in solar calculator apps or the solar power calculator apps for IOS and Android smartphone devices. Most of these smartphone solar mobile apps show the sun path and sun-angles for any location and date over a 24 hour period. Some smartphones include augmented reality features in which you can physically see and look at the solar path through your cell phone camera or mobile phone camera at your phone's specific GPS location. In the computer programming and digital signal processing (DSP) environment, (free/open source) program code are

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available for VB, .Net, Delphi, Python, C, C+, C++, PHP, Swift, ADM, F, Flash, Basic, QBasic, GBasic, KBasic, SIMPL language, Squirrel, Solaris, Assembly language on operating systems such as MS Windows, Apple Mac, DOS or Linux OS. Software algorithms predicting position of the sun in the sky are commonly available as graphical programming platforms such as Matlab (Mathworks), Simulink models, Java applets, TRNSYS simulations, Scada system apps, Labview module, Beckhoff TwinCAT (Visual Studio), Siemens SPA, mobile and iphone apps, Android or iOS tablet apps, and so forth. At the same time, PLC software code for a range of sun tracking automation technology can follow the profile of sun in sky for Siemens, HP, Panasonic, ABB, Allan Bradley, OMRON, SEW, Festo, Beckhoff, Rockwell, Schneider, Endress Hauser, Fudji electric. Honeywell, Fuchs, Yokonawa, or Muthibishi platforms.

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Sun path projection software are also available for a range of modular IPC embedded PC motherboards, Industrial PC, PLC (Programmable Logic Controller) and PAC (Programmable Automation Controller) such as the Siemens S7-1200 or Siemens Logo, Beckhoff IPC or CX series, OMRON PLC, Ercam PLC, AC500plc ABB, National Instruments NI PXI or NI cRIO, PIC processor, Intel 8051/8085, IBM (Cell, Power, Brain or Truenorth series), FPGA (Xilinx Altera Nios), Intel, Xeon, Atmel megaAVR, MPU, Maple, Teensy, MSP, XMOS, Xbee, ARM, Raspberry Pi, Eagle, Arduino or Arduino AtMega microcontroller, with servo motor, stepper motor, direct current DC pulse width modulation PWM (current driver) or alternating current AC SPS or IPC variable frequency drives VFD motor drives (also termed adjustable-frequency drive, variable-speed drive, AC drive, micro drive or

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inverter drive) for electrical, mechatronic, pneumatic, or hydraulic solar tracking actuators. The above motion control and robot control systems include analogue or digital interfacing ports on the processors to allow for tracker angle orientation feedback control through one or a combination of angle sensor or angle encoder, shaft encoder, precision encoder, optical encoder, magnetic encoder, direction encoder, rotational encoder, chip encoder, tilt sensor, inclination sensor, or pitch sensor. Note that the tracker's elevation or zenith axis angle may be measured using an altitude angle-, declination angle-, inclination angle-, pitch angle-, or vertical angle-, zenith angle- sensor or inclinometer. Similarly the tracker's azimuth axis angle may be measured with an azimuth angle-, horizontal angle-, or roll angle- sensor. Chip integrated accelerometer magnetometer gyroscope type angle sensors can also be used to

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calculate displacement. Other options include the use of thermal imaging systems such as a Fluke thermal imager, or robotic or vision based solar tracker systems that employ face tracking, head tracking, hand tracking, eye tracking and car tracking principles in solar tracking. With unattended decentralised rural, island, isolated, or autonomous off-grid power installations, remote control, monitoring, data acquisition, digital datalogging and online measurement and verification equipment becomes crucial. It assists the operator with supervisory control to monitor the efficiency of remote renewable energy resources and systems and provide valuable web-based feedback in terms of CO₂ and clean development mechanism (CDM) reporting. A power quality analyser for diagnostics through internet, WiFi and cellular mobile links is most valuable in frontline troubleshooting and predictive

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maintenance, where quick diagnostic analysis is required to detect and prevent power quality issues. Solar tracker applications cover a wide spectrum of solar energy and concentrated solar devices, including solar power generation, solar desalination, solar water purification, solar steam generation, solar electricity generation, solar industrial process heat, solar thermal heat storage, solar food dryers, solar water pumping, hydrogen production from methane or producing hydrogen and oxygen from water (HHO) through electrolysis. Many patented or non-patented solar apparatus include tracking in solar apparatus for solar electric generator, solar desalinators, solar steam engine, solar ice maker, solar water purifier, solar cooling, solar refrigeration, USB solar charger, solar phone charging, portable solar charging tracker, solar coffee brewing, solar cooking or solar drying means. Your project may be the next

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breakthrough or patent, but your invention is held back by frustration in search for the sun tracker you require for your solar powered appliance, solar generator, solar tracker robot, solar freezer, solar cooker, solar drier, solar pump, solar freezer, or solar dryer project. Whether your solar electronic circuit diagram include a simplified solar controller design in a solar electricity project, solar power kit, solar hobby kit, solar steam generator, solar hot water system, solar ice maker, solar desalinator, hobbyist solar panels, hobby robot, or if you are developing professional or hobby electronics for a solar utility or micro scale solar powerplant for your own solar farm or solar farming, this publication may help accelerate the development of your solar tracking innovation. Lately, solar polygeneration, solar trigeneration (solar triple generation), and solar quad generation (adding delivery of steam,

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liquid/gaseous fuel, or capture food-grade CO₂) systems have need for automatic solar tracking. These systems are known for significant efficiency increases in energy yield as a result of the integration and re-use of waste or residual heat and are suitable for compact packaged micro solar powerplants that could be manufactured and transported in kit-form and operate on a plug-and play basis. Typical hybrid solar power systems include compact or packaged solar micro combined heat and power (CHP or mCHP) or solar micro combined, cooling, heating and power (CCHP, CHPC, mCCHP, or mCHPC) systems used in distributed power generation. These systems are often combined in concentrated solar CSP and CPV smart microgrid configurations for off-grid rural, island or isolated microgrid, minigrid and distributed power renewable energy systems. Solar tracking algorithms are also used in

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modelling of trigeneration systems using Matlab Simulink (Modelica or TRNSYS) platform as well as in automation and control of renewable energy systems through intelligent parsing, multi-objective, adaptive learning control and control optimization strategies. Solar tracking algorithms also find application in developing solar models for country or location specific solar studies, for example in terms of measuring or analysis of the fluctuations of the solar radiation (i.e. direct and diffuse radiation) in a particular area. Solar DNI, solar irradiance and atmospheric information and models can thus be integrated into a solar map, solar atlas or geographical information systems (GIS). Such models allows for defining local parameters for specific regions that may be valuable in terms of the evaluation of different solar in photovoltaic of CSP systems on simulation and synthesis platforms such as

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Matlab and Simulink or in linear or multi-objective optimization algorithm platforms such as COMPOSE, EnergyPLAN or DER-CAM. A dual-axis solar tracker and single-axis solar tracker may use a sun tracker program or sun tracker algorithm to position a solar dish, solar panel array, heliostat array, PV panel, solar antenna or infrared solar nantenna. A self-tracking solar concentrator performs automatic solar tracking by computing the solar vector. Solar position algorithms (TwinCAT, SPA, or PSA Algorithms) use an astronomical algorithm to calculate the position of the sun. It uses astronomical software algorithms and equations for solar tracking in the calculation of sun's position in the sky for each location on the earth at any time of day. Like an optical solar telescope, the solar position algorithm pin-points the solar reflector at the sun and locks onto the sun's position to track the sun across

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the sky as the sun progresses throughout the day. Optical sensors such as photodiodes, light-dependant-resistors (LDR) or photoresistors are used as optical accuracy feedback devices. Lately we also included a section in the book (with links to microprocessor code) on how the PixArt Wii infrared camera in the Wii remote or Wiimote may be used in infrared solar tracking applications. In order to harvest free energy from the sun, some automatic solar positioning systems use an optical means to direct the solar tracking device. These solar tracking strategies use optical tracking techniques, such as a sun sensor means, to direct sun rays onto a silicon or CMOS substrate to determine the X and Y coordinates of the sun's position. In a solar mems sun-sensor device, incident sunlight enters the sun sensor through a small pin-hole in a mask plate where light is exposed to a silicon substrate. In a web-camera

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or camera image processing sun tracking and sun following means, object tracking software performs multi object tracking or moving object tracking methods. In an solar object tracking technique, image processing software performs mathematical processing to box the outline of the apparent solar disc or sun blob within the captured image frame, while sun-localization is performed with an edge detection algorithm to determine the solar vector coordinates. An automated positioning system help maximize the yields of solar power plants through solar tracking control to harness sun's energy. In such renewable energy systems, the solar panel positioning system uses a sun tracking techniques and a solar angle calculator in positioning PV panels in photovoltaic systems and concentrated photovoltaic CPV systems. Automatic on-axis solar tracking in a PV solar tracking system can be dual-axis sun tracking or single-

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axis sun solar tracking. It is known that a motorized positioning system in a photovoltaic panel tracker increase energy yield and ensures increased power output, even in a single axis solar tracking configuration. Other applications such as robotic solar tracker or robotic solar tracking system uses robotica with artificial intelligence in the control optimization of energy yield in solar harvesting through a robotic tracking system. Automatic positioning systems in solar tracking designs are also used in other free energy generators, such as concentrated solar thermal power CSP and dish Stirling systems. The sun tracking device in a solar collector in a solar concentrator or solar collector Such a performs on-axis solar tracking, a dual axis solar tracker assists to harness energy from the sun through an optical solar collector, which can be a parabolic mirror, parabolic reflector, Fresnel lens or mirror array/matrix. A

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parabolic dish or reflector is dynamically steered using a transmission system or solar tracking slew drive mean. In steering the dish to face the sun, the power dish actuator and actuation means in a parabolic dish system optically focusses the sun's energy on the focal point of a parabolic dish or solar concentrating means. A Stirling engine, solar heat pipe, thermosyphin, solar phase change material PCM receiver, or a fibre optic sunlight receiver means is located at the focal point of the solar concentrator. The dish Stirling engine configuration is referred to as a dish Stirling system or Stirling power generation system. Hybrid solar power systems (used in combination with biogas, biofuel, petrol, ethanol, diesel, natural gas or PNG) use a combination of power sources to harness and store solar energy in a storage medium. Any multitude of energy sources can be combined through the use of controllers and the

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energy stored in batteries, phase change material, thermal heat storage, and in cogeneration form converted to the required power using thermodynamic cycles (organic Rankin, Brayton cycle, micro turbine, Stirling) with an inverter and charge controller. Book and literature review is ideal for sun and moon tracking in solar applications for sun-rich countries such as the USA, Spain, Portugal, Mediterranean, Italy, Greece, Mexico, Portugal, China, India, Brazil, Chili, Argentina, South America, etc.

PC

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